TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-06-03** **Date: 09-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 10th Cross Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/05/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-03/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	08-04-2017 to 09-04-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.65	–
2	Finess by Air permeablity method (m^2/kg, Min)	272.8	225m^2/kg, Min
3	Density (gm/cc)	3.21	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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Prepared by
Harshitha

Assistant Executive Engineer
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R KARTHIK RECHAN
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-06-03** **Date: 04-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 10th Cross Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/05/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-03/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	08-05-2017 to 04-06-2017

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-06-03** **Date: 10-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 10th Cross Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/05/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-03/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	06-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	24	24	2.4	97.6	90-100	90-100	90-100	95-100
3	2.36 mm	145	169	16.9	83.1	60-95	75-100	85-100	95-100
4	1.18 mm	224	393	39.3	60.7	30-70	55-90	75-100	90-100
5	600 micron	175	568	56.8	43.2	15-34	35-59	60-79	80-100
6	300 micron	285	853	85.3	14.7	5-20	8-30	12-40	15-50
7	150 micron	102	955	95.5	4.5	0-10	0-10	0-10	0-15
8	Pan	45	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-06-03** **Date: 10-05-17**

Sample ID No : 2017-05-06-03/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.12	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	3.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-06-03** **Date: 10-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 10th Cross Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/05/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-03/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	712	712	4.7	95.3	90-100
3	20 mm	6951	7663	51.1	48.9	30-70
4	10 mm	4856	12519	83.5	16.5	10-35
5	4.75 mm	2245	14764	98.4	1.6	0-5
6	Pan	236	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-06-03** **Date: 10-05-2017**

Sample ID No : 2017-05-06-03/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.25	–

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-06-03**	**Date: 09-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at 10th Cross Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.	
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.	
Customer's Reference	:	BBMP/EE/BTP/WO/05/17-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-05-17	
Sample ID No	:	2017-05-06-03/05	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	08-05-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Sunvik	Fe500	12mm	0.885	572	684	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Sunvik	Fe500	12mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-06-03**	**Date: 09-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at 10th Cross Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.	
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.	
Customer's Reference	:	BBMP/EE/BTP/WO/05/17-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-05-17	
Sample ID No	:	2017-05-06-03/04	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	08-05-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Sunvik	Fe500	10mm	0.611	548	652	19.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Sunvik	Fe500	10mm	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-15-04** **Date: 20-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 10th Cross Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.

Customer's Reference : BBMP/EE/BTP/WO/05/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-05-17

Sample ID No : 2017-05-15-04/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/05/2017	20/05/2017	151.77 X 150.32 X 150.00	22814	8.145	401.5	17.6	17.6
2	Drain Concrete	M20	13/05/2017	20/05/2017	149.85 X 151.22 X 150.00	22660	8.195	410.2	18.1	
3	Drain Concrete	M20	13/05/2017	20/05/2017	150.75 X 150.00 X 150.42	22613	8.175	388.9	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-05-15-04 **Date: 20-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 10th Cross Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/05/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-17
Sample ID No	:	2017-05-15-04/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/05/2017	10/06/2017	150.22 X 150.98 X 150.45	22680	8.145	528.4	23.3	23.2
2	Drain Concrete	M20	13/05/2017	10/06/2017	150.44 X 150.98 X 151.02	22713	8.145	533.8	23.5	
3	Drain Concrete	M20	13/05/2017	10/06/2017	150.45 X 150.22 X 150.36	22601	8.198	513.0	22.7	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-18-05** **Date: 22-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 10th Cross Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.

Customer's Reference : BBMP/EE/BTP/WO/05/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-05-17

Sample ID No : 2017-05-18-05/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/05/2017	22/05/2017	150.22 X 150.95 X 150.45	22676	8.145	260.8	11.5	12.0
2	PCC	M15	15/05/2017	22/05/2017	150.22 X 150.98 X 149.33	22680	8.177	281.2	12.4	
3	PCC	M15	15/05/2017	22/05/2017	150.45 X 150.24 X 150.55	22604	8.168	273.5	12.1	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2017-05-18-05** **Date: 12-06-17**
stomer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
ddress	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 10th Cross Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/05/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-05/02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	15/05/2017	12/06/2017	149.87 X 150.35 X 150.44	22533	8.172	407.8	18.1	17.7
2	PCC	M15	15/05/2017	12/06/2017	150.47 X 150.32 X 150.44	22619	8.192	395.8	17.5	
3	PCC	M15	15/05/2017	12/06/2017	150.98 X 150.77 X 150.24	22763	8.199	398.4	17.5	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
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BBMP, Bangalore - 91

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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